

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	829	roflumilast	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 10:48
S2	94	roflumilast.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 11:07
S3	170	glycopyrronium	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 11:07
S4	32	glycopyrronium.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 10:49
S5	5	S2 and S4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 10:49
S6	73	roflumilast.ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 11:07
S7	26	glycopyrronium.ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 11:07

EAST Search History

S8	3	S6 and S7	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:42
S14	1	"04541955"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:43
S23	2	"20050175547"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/30 12:48

STN SEARCH HISTORY

Welcome to STN International! Enter x:x

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *

SESSION RESUMED IN FILE 'CAPLUS, MEDLINE, BIOSIS' AT 12:33:56 ON 30 NOV 2007

FILE 'CAPLUS' ENTERED AT 12:33:56 ON 30 NOV 2007

COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'MEDLINE' ENTERED AT 12:33:56 ON 30 NOV 2007

FILE 'BIOSIS' ENTERED AT 12:33:56 ON 30 NOV 2007

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

52.66

77.32

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

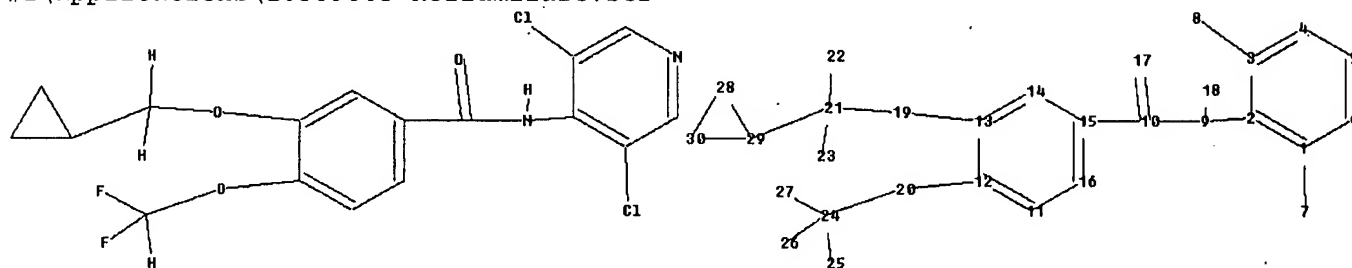
-6.24

-6.24

=>

Uploading C:\Documents and Settings\gpolsansky\My Documents\Lab

#1\applications\10589865 Roflumilast.str



chain nodes :

7 8 9 10 17 18 19 20 21 22 23 24 25 26 27

ring nodes :

1 2 3 4 5 6 11 12 13 14 15 16 28 29 30

chain bonds :

1-7 2-9 3-8 9-10 9-18 10-15 10-17 12-20 13-19 19-21 20-24 21-22 21-23
21-29 24-25 24-26 24-27

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 11-12 11-16 12-13 13-14 14-15 15-16 28-29 28-30 29-30

exact/norm bonds :

2-9 9-10 10-17 12-20 13-19 19-21 20-24 28-29 28-30 29-30

exact bonds :

1-7 3-8 9-18 10-15 21-22 21-23 21-29 24-25 24-26 24-27

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 11-12 11-16 12-13 13-14 14-15 15-16

Match level :

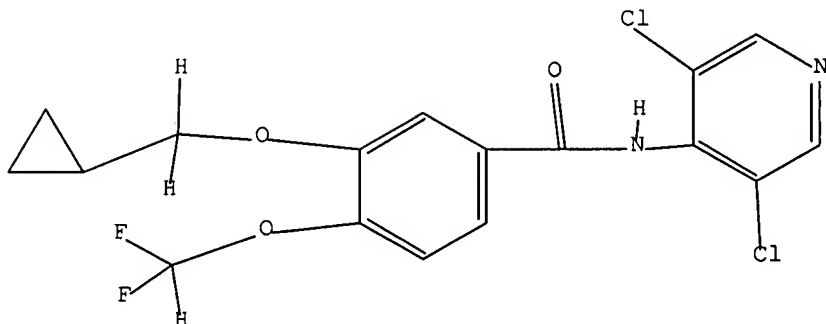
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS 18:CLASS 19:CLASS
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS
28:Atom 29:Atom 30:Atom

L6

STRUCTURE UPLOADED

STN SEARCH HISTORY

=> d 16
L6 HAS NO ANSWERS
L6 STR



Structure attributes must be viewed using STN Express query preparation.

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	52.66	77.32
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-6.24	-6.24

FILE 'REGISTRY' ENTERED AT 12:34:35 ON 30 NOV 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 29 NOV 2007 HIGHEST RN 956314-53-7
DICTIONARY FILE UPDATES: 29 NOV 2007 HIGHEST RN 956314-53-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> s 16
SAMPLE SEARCH INITIATED 12:34:44 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

STN SEARCH HISTORY

100.0% PROCESSED 1 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1 TO 80
PROJECTED ANSWERS: 1 TO 80

L7 1 SEA SSS SAM L6

=> s 16 full
FULL SEARCH INITIATED 12:35:01 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 35 TO ITERATE

100.0% PROCESSED 35 ITERATIONS 26 ANSWERS
SEARCH TIME: 00.00.01

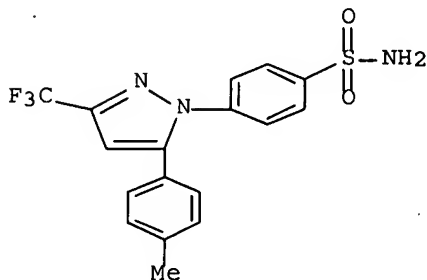
L8 26 SEA SSS FUL L6

=> d 17

L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
RN 851071-73-3 REGISTRY
ED Entered STN: 25 May 2005
CN Benzamide, 3-(cyclopropylmethoxy)-N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)-, mixt. with 4-[5-(4-methylphenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]benzenesulfonamide (9CI) (CA INDEX NAME)
MF C17 H14 Cl2 F2 N2 O3 . C17 H14 F3 N3 O2 S
CI MXS
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

CM 1

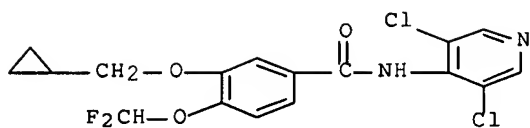
CRN 169590-42-5
CMF C17 H14 F3 N3 O2 S



CM 2

CRN 162401-32-3
CMF C17 H14 Cl2 F2 N2 O3

STN SEARCH HISTORY



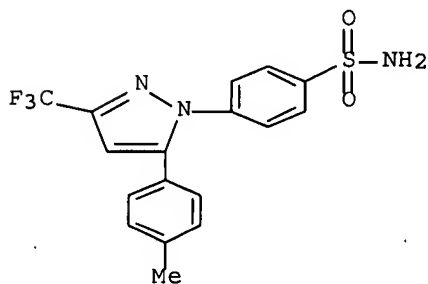
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d 17 1-3

L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
RN 851071-73-3 REGISTRY
ED Entered STN: 25 May 2005
CN Benzamide, 3-(cyclopropylmethoxy)-N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)-, mixt. with 4-[5-(4-methylphenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]benzenesulfonamide (9CI) (CA INDEX NAME)
MF C17 H14 Cl2 F2 N2 O3 . C17 H14 F3 N3 O2 S
CI MXS
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

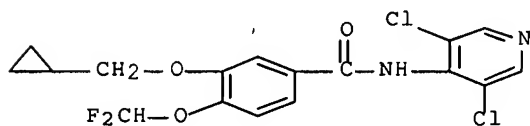
CM 1

CRN 169590-42-5
CMF C17 H14 F3 N3 O2 S



CM 2

CRN 162401-32-3
CMF C17 H14 Cl2 F2 N2 O3



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

STN SEARCH HISTORY

=> d hist

(FILE 'HOME' ENTERED AT 11:10:33 ON 30 NOV 2007)

FILE 'REGISTRY' ENTERED AT 11:10:48 ON 30 NOV 2007

L1 0 S GLYCOPYRRONIUM/CN
L2 3 S GLYCOPYRRONIUM
L3 1 S ROFLUMILAST

FILE 'CAPLUS, MEDLINE, BIOSIS' ENTERED AT 11:13:27 ON 30 NOV 2007

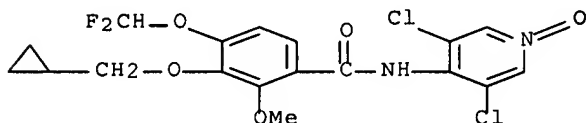
L4 8 S (L2 OR GLYCOPYRRONIUM) AND (L3 OR ROFLUMILAST)
L5 8 DUPLICATE REMOVE L4 (0 DUPLICATES REMOVED)
L6 STRUCTURE UPLOADED

FILE 'REGISTRY' ENTERED AT 12:34:35 ON 30 NOV 2007

L7 1 S L6
L8 26 S L6 FULL

=> d 18 1-3

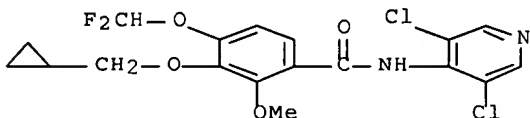
L8 ANSWER 1 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
RN 883744-89-6 REGISTRY
ED Entered STN: 10 May 2006
CN Benzamide, 3-(cyclopropylmethoxy)-N-(3,5-dichloro-1-oxido-4-pyridinyl)-4-(difluoromethoxy)-2-methoxy- (CA INDEX NAME)
MF C18 H16 Cl2 F2 N2 O5
SR CA
LC STN Files: CA, CAPLUS, CASREACT



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L8 ANSWER 2 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
RN 883744-88-5 REGISTRY
ED Entered STN: 10 May 2006
CN Benzamide, 3-(cyclopropylmethoxy)-N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)-2-methoxy- (CA INDEX NAME)
MF C18 H16 Cl2 F2 N2 O4
SR CA
LC STN Files: CA, CAPLUS, CASREACT

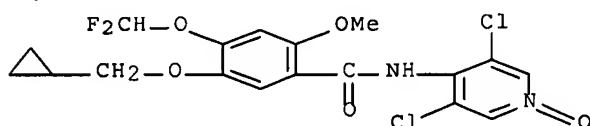


STN SEARCH HISTORY

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L8 . ANSWER 3 OF 26 REGISTRY COPYRIGHT 2007 ACS on STN
RN 883744-87-4 REGISTRY
ED Entered STN: 10 May 2006
CN Benzamide, 5-(cyclopropylmethoxy)-N-(3,5-dichloro-1-oxido-4-pyridinyl)-4-(difluoromethoxy)-2-methoxy- (CA INDEX NAME)
MF C18 H16 Cl2 F2 N2 O5
SR CA
LC STN Files: CA, CAPLUS, CASREACT

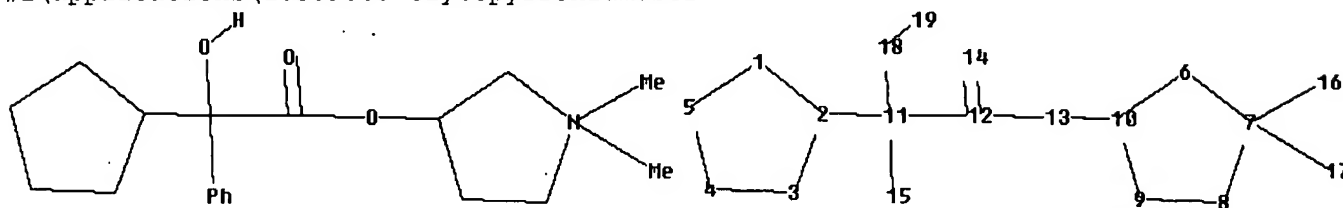


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=>

Uploading C:\Documents and Settings\gpolansky\My Documents\Lab
#1\applications\10589865 Glycopyrronium.str



chain nodes :

11 12 13 14 15 16 17 18 19

ring nodes :

1 2 3 4 5 6 7 8 9 10

chain bonds :

2-11 7-16 7-17 10-13 11-12 11-15 11-18 12-13 12-14 18-19

ring bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-10 7-8 8-9 9-10

exact/norm bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-10 7-8 8-9 9-10 10-13 11-18 12-13 12-14

exact bonds :

2-11 7-16 7-17 11-12 11-15 18-19

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS

STN SEARCH HISTORY

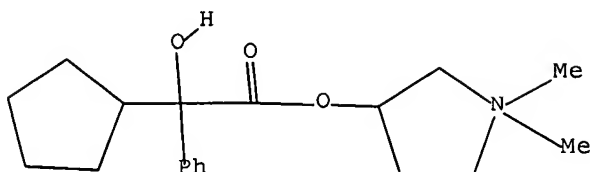
19:CLASS

L9 STRUCTURE UPLOADED

=> d 19

L9 HAS NO ANSWERS

L9 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 19 full

FULL SEARCH INITIATED 12:38:38 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 2174 TO ITERATE

100.0% PROCESSED 2174 ITERATIONS

66 ANSWERS

SEARCH TIME: 00.00.01

L10 66 SEA SSS FUL L9

=> d 110

L10 ANSWER 1 OF 66 REGISTRY COPYRIGHT 2007 ACS on STN

RN 951441-67-1 REGISTRY

ED Entered STN: 26 Oct 2007

CN 2-Azoniabicyclo[2.2.1]heptane, 7-[[[(2R)-2-[(1R)-3,3-difluorocyclopentyl]-2-hydroxy-2-phenylacetyl]oxy]-2,2-dimethyl-, (1S)- (CA INDEX NAME)

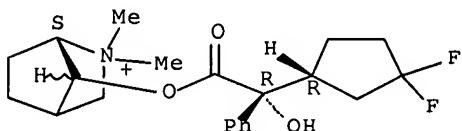
FS STEREOSEARCH

MF C21 H28 F2 N O3

CI COM

SR CA

Absolute stereochemistry.



=> fil caplus medline biosis

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

STN SEARCH HISTORY

FULL ESTIMATED COST	ENTRY 358.60	SESSION 435.92
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-6.24

FILE 'CAPLUS' ENTERED AT 12:39:06 ON 30 NOV 2007
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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 COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'MEDLINE' ENTERED AT 12:39:06 ON 30 NOV 2007

FILE 'BIOSIS' ENTERED AT 12:39:06 ON 30 NOV 2007
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=> d hist

(FILE 'HOME' ENTERED AT 11:10:33 ON 30 NOV 2007)

FILE 'REGISTRY' ENTERED AT 11:10:48 ON 30 NOV 2007

L1 0 S GLYCOPYRRONIUM/CN
 L2 3 S GLYCOPYRRONIUM
 L3 1 S ROFLUMILAST

FILE 'CAPLUS, MEDLINE, BIOSIS' ENTERED AT 11:13:27 ON 30 NOV 2007

L4 8 S (L2 OR GLYCOPYRRONIUM) AND (L3 OR ROFLUMILAST)
 L5 8 DUPLICATE REMOVE L4 (0 DUPLICATES REMOVED)
 L6 STRUCTURE UPLOADED

FILE 'REGISTRY' ENTERED AT 12:34:35 ON 30 NOV 2007

L7 1 S L6
 L8 26 S L6 FULL
 L9 STRUCTURE UPLOADED
 L10 66 S L9 FULL

FILE 'CAPLUS, MEDLINE, BIOSIS' ENTERED AT 12:39:06 ON 30 NOV 2007

=> s l18 and l10

L18 NOT FOUND

The L-number entered could not be found. To see the definition
 of L-numbers, enter DISPLAY HISTORY at an arrow prompt (=>).

=> s l8 and l10

L11 10 L8 AND L10

=> dup

ENTER REMOVE, IDENTIFY, ONLY, OR (?):remove

ENTER L# LIST OR (END):l11

PROCESSING COMPLETED FOR L11

L12 10 DUP REMOVE L11 (0 DUPLICATES REMOVED)

=> d ibib abs hitstr 1-10

L12 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:702746 CAPLUS Full-text

DOCUMENT NUMBER: 147:125812

TITLE: Novel combination of anticholinergics,
 β2-adrenoceptor agonists, antileukotrienes

STN SEARCH HISTORY

(leukotriene receptor antagonists), glucocorticoids
and/or PDE 4 inhibitors for the treatment of
inflammatory diseases

INVENTOR(S): Maus, Joachim; Kastrup, Horst; Bauhofer, Artur; Cnota,
Peter; Szelenyi, Istvan
PATENT ASSIGNEE(S): Meda Pharma GmbH & Co KG, Germany
SOURCE: PCT Int. Appl., 39pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007071313	A2	20070628	WO 2006-EP11536	20061201
WO 2007071313	A3	20071011		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN,
KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK,
MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO,
RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT,
TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

US 2007196285	A1	20070823	US 2006-642967	20061221
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PRIORITY APPLN. INFO.: US 2005-752058P P 20051221

AB The invention relates to novel combinations based on anticholinergics, β 2-adrenoceptor agonists, PDE 4 inhibitors, glucocorticoids, and leukotriene-receptor antagonists, process for their production and their use for the treatment of inflammatory diseases, preferably respiratory diseases as bronchial asthma and chronic obstructive pulmonary diseases or rheumatic or autoimmune diseases. Thus, 3-in-1 combination (budesonide, rolipram and R,R-glycopyrrolate) resulted in statistically significant over-additive inhibition of the TNF α release.

IT 129784-14-1 162401-32-3, Roflumilast 942618-84-0
942619-04-7

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)

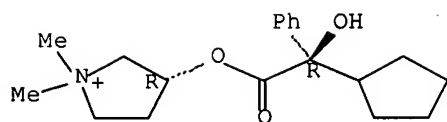
(combination of anticholinergics and β 2-adrenoceptor agonists and
antileukotrienes and glucocorticoids for treatment of inflammatory
diseases)

RN 129784-14-1 CAPLUS

CN Pyrrolidinium, 3-[[[(2R)-cyclopentylhydroxyphenylacetyl]oxy]-1,1-dimethyl-,
chloride (1:1), (3R)- (CA INDEX NAME)

Absolute stereochemistry.

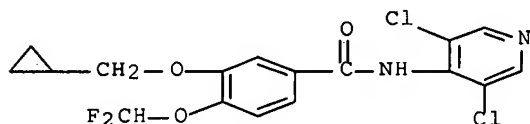
STN SEARCH HISTORY



● Cl -

RN 162401-32-3 CAPLUS

CN Benzamide, 3-(cyclopropylmethoxy)-N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)- (CA INDEX NAME)



RN 942618-84-0 CAPLUS

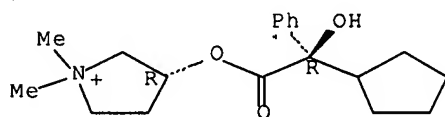
CN Pregna-1,4-diene-3,20-dione, 16,17-[butylidenebis(oxy)]-11,21-dihydroxy-, (11β,16α)-, mixt. with (3R)-3-[[(2R)-2-cyclopentyl-2-hydroxy-2-phenylacetyl]oxy]-1,1-dimethylpyrrolidinium and rel-N-[2-hydroxy-5-[(1R)-1-hydroxy-2-[(1R)-2-(4-methoxyphenyl)-1-methylethyl]amino]ethyl]phenyl] form amide (CA INDEX NAME)

CM 1

CRN 202185-74-8

CMF C19 H28 N O3

Absolute stereochemistry.



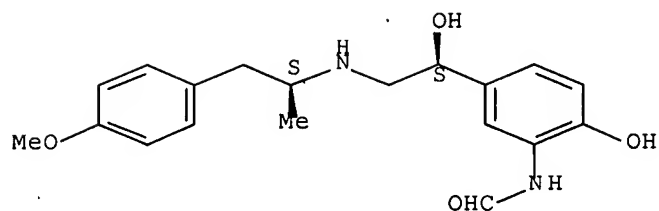
CM 2

CRN 73573-87-2

CMF C19 H24 N2 O4

Relative stereochemistry.

STN SEARCH HISTORY

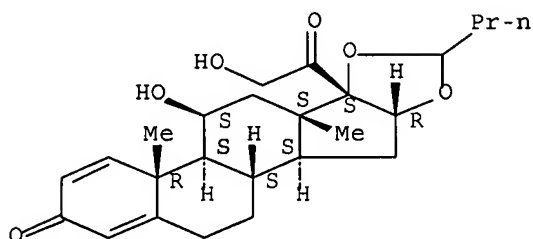


CM 3

CRN 51333-22-3

CMF C25 H34 O6

Absolute stereochemistry.



RN 942619-04-7 CAPLUS

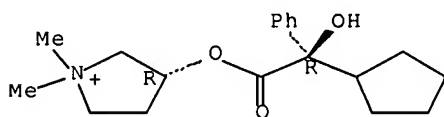
CN Pregna-1,4-diene-3,20-dione, 16,17-[butylidenebis(oxy)]-11,21-dihydroxy-, (11 β ,16 α)-, mixt. with (3R)-3-[[[(2R)-2-cyclopentyl-2-hydroxy-2-phenylacetyl]oxy]-1,1-dimethylpyrrolidinium and 4-[3-(cyclopentylloxy)-4-methoxyphenyl]-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 202185-74-8

CMF C19 H28 N O3

Absolute stereochemistry.

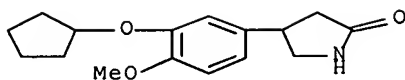


CM 2

CRN 61413-54-5

CMF C16 H21 N O3

STN SEARCH HISTORY

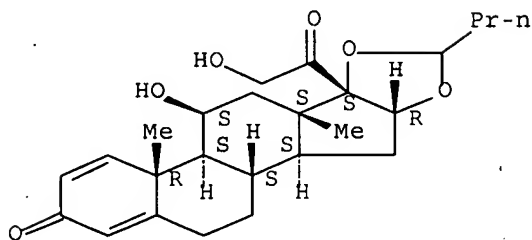


CM 3

CRN 51333-22-3

CMF C25 H34 O6

Absolute stereochemistry.



L12 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006:1339527 CAPLUS Full-text
 DOCUMENT NUMBER: 146:87582
 TITLE: MRP4 inhibitors for the treatment of respiratory diseases
 INVENTOR(S): Goeggel, Rolf; Cui, Yunhai
 PATENT ASSIGNEE(S): Boehringer Ingelheim International GmbH, Germany;
 Boehringer Ingelheim Pharma GmbH & Co. KG
 SOURCE: PCT Int. Appl., 63pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006134022	A1	20061221	WO 2006-EP62690	20060530
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
US 2006286041	A1	20061221	US 2006-424596	20060616
PRIORITY APPLN. INFO.:			EP 2005-105363	A 20050617
OTHER SOURCE(S):			MARPAT 146:87582	

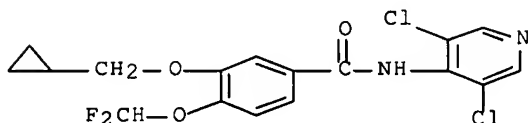
STN SEARCH HISTORY

AB The present invention relates to the use of MRP4 inhibitors for the treatment of respiratory diseases, pharmaceutical compns. containing them and processes for the preparation thereof.

IT 162401-32-3, Roflumilast 292135-78-5
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (PDE-IV inhibitor; MRP4 inhibitors in combination with other therapeutic agents for treatment of respiratory diseases)

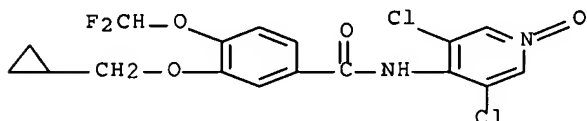
RN 162401-32-3 CAPLUS

CN Benzamide, 3-(cyclopropylmethoxy)-N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)- (CA INDEX NAME)



RN 292135-78-5 CAPLUS

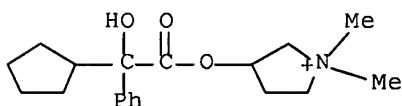
CN Benzamide, 3-(cyclopropylmethoxy)-N-(3,5-dichloro-1-oxido-4-pyridinyl)-4-(difluoromethoxy)- (CA INDEX NAME)



IT 596-51-0D, salts
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (anticholinergic; MRP4 inhibitors in combination with other therapeutic agents for treatment of respiratory diseases)

RN 596-51-0 CAPLUS

CN Pyrrolidinium, 3-[(2-cyclopentyl-2-hydroxy-2-phenylacetyl)oxy]-1,1-dimethyl-, bromide (1:1) (CA INDEX NAME)



● Br⁻

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006:1036603 CAPLUS Full-text
 DOCUMENT NUMBER: 145:404168
 TITLE: Medicaments and methods combining an anticholinergic,

STN SEARCH HISTORY

INVENTOR(S): a corticosteroid, and a long acting beta agonist
 Sequeira, Joel A.; Yang, Tsong-Toh
 PATENT ASSIGNEE(S): Schering Corporation, USA
 SOURCE: PCT Int. Appl., 26pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006105401	A2	20061005	WO 2006-US11924	20060330
WO 2006105401	A3	20070621		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

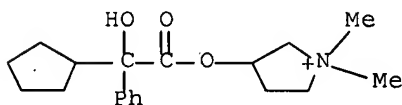
PRIORITY APPLN. INFO.:
 US 2005-666420P P 20050330
 US 2005-734452P P 20051108
 US 2006-786960P P 20060329

AB Disclosed are inhalable medicaments and methods based on an anticholinergic in combination with a corticosteroid, and a long acting beta agonist, for simultaneous or sequential administration in the prevention or treatment of a respiratory, inflammatory or obstructive airway disease. In addition, disclosed are inhalable medicaments and methods based on combinations of an anticholinergic and a corticosteroid; an anticholinergic and a long acting beta agonist; or a corticosteroid and a long acting beta agonist, for simultaneous or sequential administration in the prevention or treatment of a respiratory, inflammatory or obstructive airway disease. Also disclosed are inhalable medicaments and methods comprising a phosphodiesterase IV inhibitor for administration in the prevention or treatment of a respiratory, inflammatory or obstructive airway disease.

IT 596-51-0, Glycopyrrrolate
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (medicaments combining anticholinergic, corticosteroid, and long-acting β -agonist)

RN 596-51-0 CAPLUS

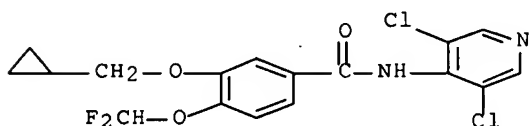
CN Pyrrolidinium, 3-[(2-cyclopentyl-2-hydroxy-2-phenylacetyl)oxy]-1,1-dimethyl-, bromide (1:1) (CA INDEX NAME)



● Br⁻

STN SEARCH HISTORY

IT 162401-32-3, Roflumilast
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (medicaments combining anticholinergic, corticosteroid, and long-acting
 β -agonist)
 RN 162401-32-3 CAPLUS
 CN Benzamide, 3-(cyclopropylmethoxy)-N-(3,5-dichloro-4-pyridinyl)-4-
 (difluoromethoxy)- (CA INDEX NAME)



L12 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006:1256669 CAPLUS Full-text
 DOCUMENT NUMBER: 146:20293
 TITLE: Novel medicament combinations for the treatment of
 respiratory diseases
 INVENTOR(S): Pieper, Michael P.; Schnapp, Andreas; Nickolaus, Peter
 PATENT ASSIGNEE(S): Boehringer Ingelheim International GmbH, Germany
 SOURCE: U.S. Pat. Appl. Publ., 33pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006270667	A1	20061130	US 2006-420872	20060530
WO 2006128847	A2	20061207	WO 2006-EP62683	20060529
WO 2006128847	A3	20070426		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,
 KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX,
 MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,
 SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
 VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRIORITY APPLN. INFO.: EP 2005-104702 A 20050531
 OTHER SOURCE(S): MARPAT 146:20293

AB The present invention relates to new medicament combinations which contain in
 addition to one or more, preferably one, betamimetic, at least one
 anticholinergic and at least one PDE-IV inhibitor processes for preparing them
 and their use as pharmaceutical compns.

IT 596-51-0D, salts 162401-32-3, Roflumilast
 292135-78-5

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

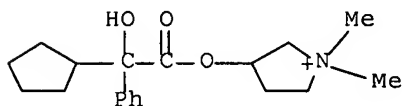
STN SEARCH HISTORY

(Biological study); USES (Uses)

(novel medicament combinations for treatment of respiratory diseases)

RN 596-51-0 CAPLUS

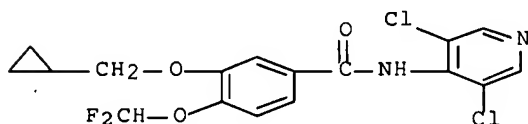
CN Pyrrolidinium, 3-[(2-cyclopentyl-2-hydroxy-2-phenylacetyl)oxy]-1,1-dimethyl-, bromide (1:1) (CA INDEX NAME)



● Br⁻

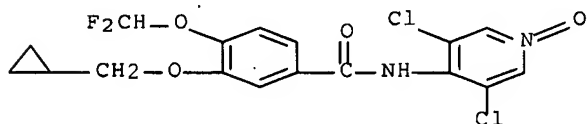
RN 162401-32-3 CAPLUS

CN Benzamide, 3-(cyclopropylmethoxy)-N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)- (CA INDEX NAME)



RN 292135-78-5 CAPLUS

CN Benzamide, 3-(cyclopropylmethoxy)-N-(3,5-dichloro-1-oxido-4-pyridinyl)-4-(difluoromethoxy)- (CA INDEX NAME)



L12 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:46803 CAPLUS Full-text

DOCUMENT NUMBER: 144:135233

TITLE: Pharmaceuticals for inhalation comprising PDE IV inhibitors and glycopyrrolate salts

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma Gm.b.H. & Co. K.-G., Germany

SOURCE: Eur. Pat. Appl., 24 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 1616567	A1	20060118	EP 2004-16878	20040716

STN SEARCH HISTORY

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR

CA 2570433 A1 20060126 CA 2005-2570433 20050613

WO 2006008213 A1 20060126 WO 2005-EP52704 20050613

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

EP 1799205 A1 20070627 EP 2005-752830 20050613

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR

PRIORITY APPLN. INFO.: EP 2004-16878 A 20040716

WO 2005-EP52704 W 20050613

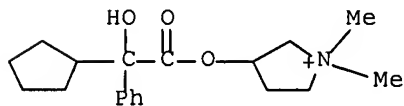
AB The present invention relates to novel pharmaceutical compns. based on PDE IV inhibitors and salts of glycopyrrolate salts, processes for preparing them and their use in the treatment of respiratory complaints. Thus, a formulation contained a glycopyrrolate salt 60, AWD 12281 200, lactose 12240 µg/capsule.

IT 596-51-0 162401-32-3, Roflumilast 201932-04-9D
, salts 202185-74-8D, salts 292135-78-5
475468-09-8 746600-85-1D, salts 754152-54-0D,
salts 873295-30-8 873295-31-9 873295-32-0
873295-33-1 873295-34-2 873295-35-3
873295-36-4 873295-37-5 873295-38-6
873295-39-7 873295-40-0 873295-41-1
873295-43-3 873295-44-4 873295-45-5
873295-46-6

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmaceuticals for inhalation comprising PDE IV inhibitors and glycopyrrolate salts)

RN 596-51-0 CAPLUS

CN Pyrrolidinium, 3-[(2-cyclopentyl-2-hydroxy-2-phenylacetyl)oxy]-1,1-dimethyl-, bromide (1:1) (CA INDEX NAME)

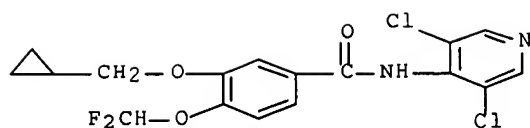


● Br⁻

RN 162401-32-3 CAPLUS

CN Benzamide, 3-(cyclopropylmethoxy)-N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)- (CA INDEX NAME)

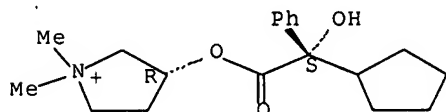
STN SEARCH HISTORY



RN 201932-04-9 CAPLUS

CN Pyrrolidinium, 3-[[[(2S)-cyclopentylhydroxyphenylacetyl]oxy]-1,1-dimethyl-, (3R)- (9CI) (CA INDEX NAME)

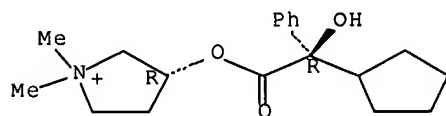
Absolute stereochemistry.



RN 202185-74-8 CAPLUS

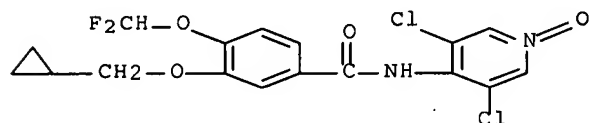
CN Pyrrolidinium, 3-[[[(2R)-2-cyclopentyl-2-hydroxy-2-phenylacetyl]oxy]-1,1-dimethyl-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.



RN 292135-78-5 CAPLUS

CN Benzamide, 3-(cyclopropylmethoxy)-N-(3,5-dichloro-1-oxido-4-pyridinyl)-4-(difluoromethoxy)- (CA INDEX NAME)

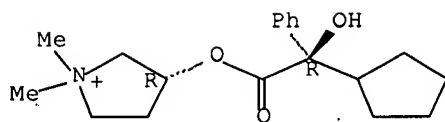


RN 475468-09-8 CAPLUS

CN Pyrrolidinium, 3-[[[(2R)-2-cyclopentyl-2-hydroxy-2-phenylacetyl]oxy]-1,1-dimethyl-, bromide (1:1), (3R)- (CA INDEX NAME)

Absolute stereochemistry.

STN SEARCH HISTORY

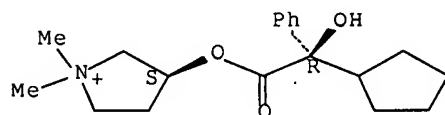


● Br⁻

RN 746600-85-1 CAPLUS

CN Pyrrolidinium, 3-[[[(2R)-2-cyclopentyl-2-hydroxy-2-phenylacetyl]oxy]-1,1-dimethyl-, (3S)- (CA INDEX NAME)

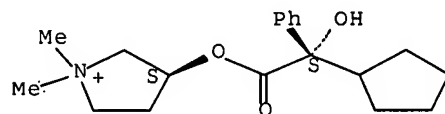
Absolute stereochemistry.



RN 754152-54-0 CAPLUS

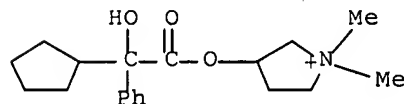
CN Pyrrolidinium, 3-[[[(2S)-cyclopentylhydroxyphenylacetyl]oxy]-1,1-dimethyl-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 873295-30-8 CAPLUS

CN Pyrrolidinium, 3-[(cyclopentylhydroxyphenylacetyl)oxy]-1,1-dimethyl-, fluoride (9CI) (CA INDEX NAME)

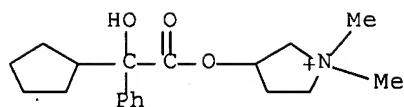


● F⁻

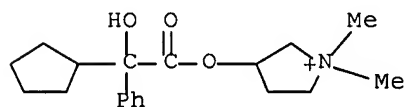
RN 873295-31-9 CAPLUS

CN Pyrrolidinium, 3-[(cyclopentylhydroxyphenylacetyl)oxy]-1,1-dimethyl-, chloride (9CI) (CA INDEX NAME)

STN SEARCH HISTORY



RN 873295-32-0 CAPLUS
 CN Pyrrolidinium, 3-[(cyclopentylhydroxyphenylacetyl)oxy]-1,1-dimethyl-,
 iodide (9CI) (CA INDEX NAME)

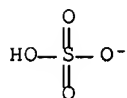


RN 873295-33-1 CAPLUS
 CN Pyrrolidinium, 3-[(cyclopentylhydroxyphenylacetyl)oxy]-1,1-dimethyl-,
 sulfate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 14996-02-2

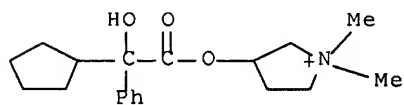
CMF H O4 S



CM 2

CRN 13283-82-4

CMF C19 H28 N O3



RN 873295-34-2 CAPLUS
 CN Pyrrolidinium, 3-[(cyclopentylhydroxyphenylacetyl)oxy]-1,1-dimethyl-,

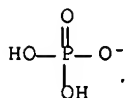
STN SEARCH HISTORY

phosphate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 14066-20-7

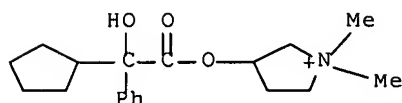
CMF H2 O4 P



CM 2

CRN 13283-82-4

CMF C19 H28 N O3



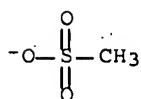
RN 873295-35-3 CAPLUS

CN Pyrrolidinium, 3-[(cyclopentylhydroxyphenylacetyl)oxy]-1,1-dimethyl-, methanesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 16053-58-0

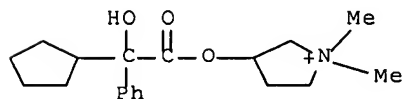
CMF C H3 O3 S



CM 2

CRN 13283-82-4

CMF C19 H28 N O3

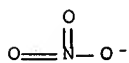


STN SEARCH HISTORY

RN 873295-36-4 CAPLUS
 CN Pyrrolidinium, 3-[(cyclopentylhydroxyphenylacetyl)oxy]-1,1-dimethyl-,
 nitrate (9CI) (CA INDEX NAME)

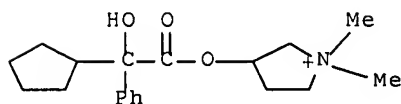
CM 1

CRN 14797-55-8
 CMF N O3



CM 2

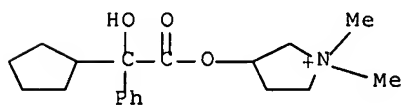
CRN 13283-82-4
 CMF C19 H28 N O3



RN 873295-37-5 CAPLUS
 CN Pyrrolidinium, 3-[(cyclopentylhydroxyphenylacetyl)oxy]-1,1-dimethyl-,
 (2Z)-2-butenedioate (2:1) (9CI) (CA INDEX NAME)

CM 1

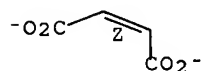
CRN 13283-82-4
 CMF C19 H28 N O3



CM 2

CRN 142-44-9
 CMF C4 H2 O4

Double bond geometry as shown.



STN SEARCH HISTORY

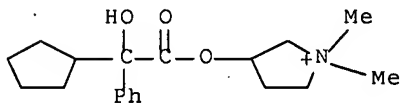
RN 873295-38-6 CAPLUS

CN Pyrrolidinium, 3-[(cyclopentylhydroxyphenylacetyl)oxy]-1,1-dimethyl-, acetate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 13283-82-4

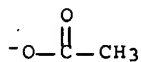
CMF C19 H28 N O3



CM 2

CRN 71-50-1

CMF C2 H3 O2



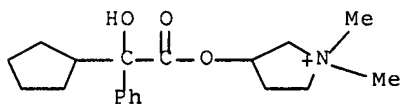
RN 873295-39-7 CAPLUS

CN Pyrrolidinium, 3-[(cyclopentylhydroxyphenylacetyl)oxy]-1,1-dimethyl-, salt with 2-hydroxy-1,2,3-propanetricarboxylic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 13283-82-4

CMF C19 H28 N O3

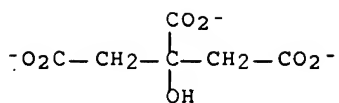


CM 2

CRN 126-44-3

CMF C6 H5 O7

STN SEARCH HISTORY



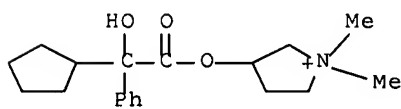
RN 873295-40-0 CAPLUS

CN Pyrrolidinium, 3-[(cyclopentylhydroxyphenylacetyl)oxy]-1,1-dimethyl-, (2E)-2-butenedioate (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 13283-82-4

CMF C19 H28 N O3

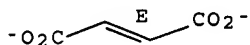


CM 2

CRN 142-42-7

CMF C4 H2 O4

Double bond geometry as shown.



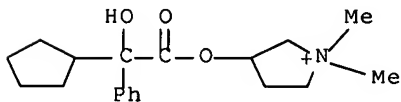
RN 873295-41-1 CAPLUS

CN Pyrrolidinium, 3-[(cyclopentylhydroxyphenylacetyl)oxy]-1,1-dimethyl-, salt with (2R,3R)-2,3-dihydroxybutanedioic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 13283-82-4

CMF C19 H28 N O3



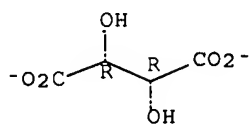
CM 2

CRN 3715-17-1

CMF C4 H4 O6

STN SEARCH HISTORY

Absolute stereochemistry.



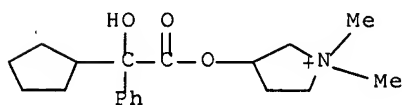
RN 873295-43-3 CAPLUS

CN Pyrrolidinium, 3-[(cyclopentylhydroxyphenylacetyl)oxy]-1,1-dimethyl-, ethanedioate (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 13283-82-4

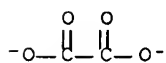
CMF C19 H28 N O3



CM 2

CRN 338-70-5

CMF C2 O4



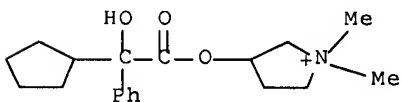
RN 873295-44-4 CAPLUS

CN Pyrrolidinium, 3-[(cyclopentylhydroxyphenylacetyl)oxy]-1,1-dimethyl-, butanedioate (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 13283-82-4

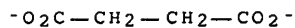
CMF C19 H28 N O3



CM 2

STN SEARCH HISTORY

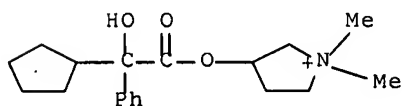
CRN 56-14-4
CMF C4 H4 O4



RN 873295-45-5 CAPLUS
CN Pyrrolidinium, 3-[(cyclopentylhydroxyphenylacetyl)oxy]-1,1-dimethyl-, benzoate (9CI) (CA INDEX NAME)

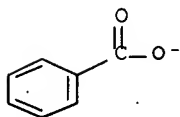
CM 1

CRN 13283-82-4
CMF C19 H28 N O3



CM 2

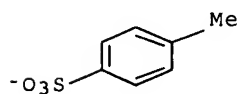
CRN 766-76-7
CMF C7 H5 O2



RN 873295-46-6 CAPLUS
CN Pyrrolidinium, 3-[(cyclopentylhydroxyphenylacetyl)oxy]-1,1-dimethyl-, salt with 4-methylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 16722-51-3
CMF C7 H7 O3 S

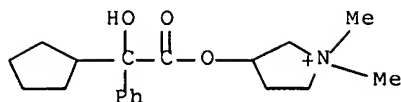


CM 2

CRN 13283-82-4

STN SEARCH HISTORY

CMF C19 H28 N O3



REFERENCE COUNT: 3. THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2005:1042034 CAPLUS Full-text
 DOCUMENT NUMBER: 143:332487
 TITLE: Pharmaceutical formulations dry powder inhalants comprising a low-dose active ingredient
 INVENTOR(S): Bilzi, Roberto; Armanni, Angela; Rastelli, Roberto; Cocconi, Daniela; Musa, Rossella
 PATENT ASSIGNEE(S): Chiesi Farmaceutici S.p.A., Italy
 SOURCE: PCT Int. Appl., 49 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005089717	A1	20050929	WO 2005-EP2789	20050316
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2005224008	A1	20050929	AU 2005-224008	20050316
CA 2560226	A1	20050929	CA 2005-2560226	20050316
EP 1729728	A1	20061213	EP 2005-716109	20050316
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, LV, MK, YU				
CN 1942172	A	20070404	CN 2005-80010973	20050316
BR 2005008170	A	20070807	BR 2005-8170	20050316
NO 2006004161	A	20061017	NO 2006-4161	20060914
US 2007202053	A1	20070830	US 2007-592701	20070509
PRIORITY APPLN. INFO.:			EP 2004-6430	A 20040317
			WO 2005-EP2789	W 20050316

AB The invention provides a formulation to be administered as dry powder for inhalation suitable for efficacious delivery of low-dose active ingredients to the lower respiratory tract of patients. In particular, the invention provides a formulation comprising microparticles constituted of microparticles of a low-dosage strength active ingredient and microparticles of an excipient

STN SEARCH HISTORY

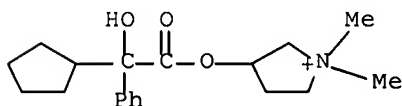
wherein the mean mass diameter of the microparticles comprises 2-15 μ , at least 10% of the microparticles has a mass diameter of $>0.5 \mu$. Thus, a formulation was prepared by using carmoterol monohydrochloride and Mg stearate carrier particles.

IT 596-51-0, Glycopyrrolate bromide 162401-32-3,
Roflumilast

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmaceutical dry powder inhalants comprising low-dose active ingredient)

RN 596-51-0 CAPLUS

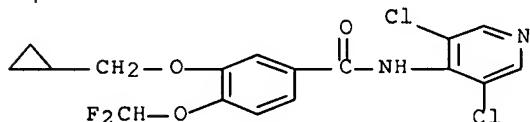
CN Pyrrolidinium, 3-[(2-cyclopentyl-2-hydroxy-2-phenylacetyl)oxy]-1,1-dimethyl-, bromide (1:1) (CA INDEX NAME)



● Br⁻

RN 162401-32-3 CAPLUS

CN Benzamide, 3-(cyclopropylmethoxy)-N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)- (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:984025 CAPLUS Full-text
DOCUMENT NUMBER: 143:272547
TITLE: Roflumilast and glycopyrronium combination
INVENTOR(S): Roscher, Rene; Karl, Christoph
PATENT ASSIGNEE(S): Altana Pharma A.-G., Germany
SOURCE: PCT Int. Appl., 20 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005082361	A1	20050909	WO 2005-EP50800	20050225
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,				

STN SEARCH HISTORY

NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,
 SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
 MR, NE, SN, TD, TG

EP 1720543 A1 20061115 EP 2005-716794 20050225
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA,
 HR, LV, MK, YU

JP 2007524699 T 20070830 JP 2007-500220 20050225
 US 2007167496 A1 20070719 US 2006-589865 20060912

PRIORITY APPLN. INFO.: EP 2004-4472 A 20040227
 WO 2005-EP50800 W 20050225

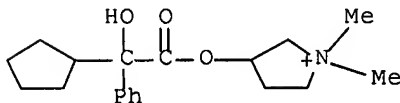
AB This invention relates to pharmaceutical formulations contg. combinations of
 roflumilast and a pharmaceutically acceptable salt of glycopyrronium and the
 use of such pharmaceutical compns. in medicine, in particular in the
 prophylaxis and treatment of respiratory disease.

IT 596-51-0 162401-32-3, Roflumilast 202185-74-8
 292135-78-5 475468-09-8

RL: PEP (Physical, engineering or chemical process); PYP (Physical
 process); THU (Therapeutic use); BIOL (Biological study); PROC (Process);
 USES (Uses)
 (roflumilast and glycopyrronium combination)

RN 596-51-0 CAPLUS

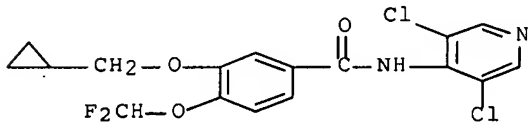
CN Pyrrolidinium, 3-[(2-cyclopentyl-2-hydroxy-2-phenylacetyl)oxy]-1,1-
 dimethyl-, bromide (1:1) (CA INDEX NAME)



● Br⁻

RN 162401-32-3 CAPLUS

CN Benzamide, 3-(cyclopropylmethoxy)-N-(3,5-dichloro-4-pyridinyl)-4-
 (difluoromethoxy)- (CA INDEX NAME)

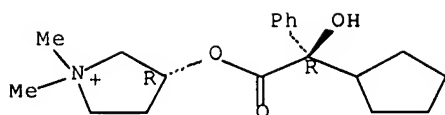


RN 202185-74-8 CAPLUS

CN Pyrrolidinium, 3-[[[(2R)-2-cyclopentyl-2-hydroxy-2-phenylacetyl]oxy]-1,1-
 dimethyl-, (3R)- (CA INDEX NAME)

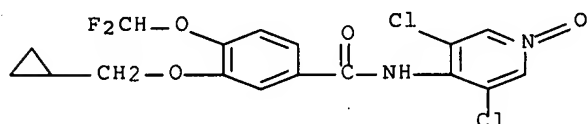
Absolute stereochemistry.

STN SEARCH HISTORY



RN 292135-78-5 CAPLUS

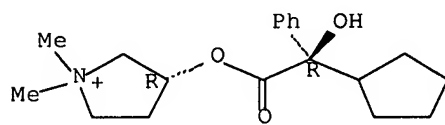
CN Benzamide, 3-(cyclopropylmethoxy)-N-(3,5-dichloro-1-oxido-4-pyridinyl)-4-(difluoromethoxy)- (CA INDEX NAME)



RN 475468-09-8 CAPLUS

CN Pyrrolidinium, 3-[[(2R)-2-cyclopentyl-2-hydroxy-2-phenylacetyl]oxy]-1,1-dimethyl-, bromide (1:1), (3R)- (CA INDEX NAME)

Absolute stereochemistry.



● Br⁻

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:823606 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 143:206419

TITLE: Treatment of rhinitis with anticholinergics alone or in combination with antihistamines, phosphodiesterase 4 inhibitors, or corticosteroids

INVENTOR(S): Maus, Joachim; Petzold, Ursula; Szelenyi, Istvan; Hoffmann, Torsten; Weingart, Mario

PATENT ASSIGNEE(S): Sofotec G.m.b.H. & Co. K.-G., Germany

SOURCE: PCT Int. Appl., 16 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005074983	A2	20050818	WO 2005-EP653	20050124
WO 2005074983	A3	20060413		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,

STN SEARCH HISTORY

CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, SM
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2005210086	A1	20050818	AU 2005-210086	20050124
CA 2552458	A1	20050818	CA 2005-2552458	20050124
EP 1713472	A2	20061025	EP 2005-701142	20050124
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
CN 1913882	A	20070214	CN 2005-80004043	20050124
JP 2007520509	T	20070726	JP 2006-551764	20050124
US 2005222102	A1	20051006	US 2005-51470	20050207
IN 2006KN01903	A	20070518	IN 2006-KN1903	20060707
MX 2006PA08935	A	20061002	MX 2006-PA8935	20060804
NO 2006003881	A	20061102	NO 2006-3881	20060831

PRIORITY APPLN. INFO.:

US 2004-541950P	P	20040206
WO 2005-EP653	W	20050124
WO 2005-US653	W	20050124

AB The invention provides combinations comprising a topical anticholinergic drug alone or in combination with topically administered antihistamines, topically or orally administered phosphodiesterase 4 inhibitors or topical corticosteroids for the treatment of rhinitis of various origins. It further comprises presentation of these combinations in locally applied formulations and includes various pharmaceutical formulations suitable for topical application, e.g. nasal sprays, nasal drops, emulsions, pastes, creams and gels.

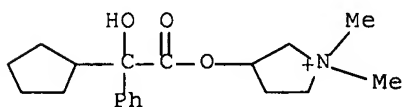
IT 596-51-0, Glycopyrrolate 596-51-0D, Glycopyrrolate, enantiomers and diastereomers 162401-32-3, Roflumilast 202185-74-8 862156-55-6

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(anticholinergics alone or in combination with antihistamines, phosphodiesterase 4 inhibitors, or corticosteroids for treatment of rhinitis)

RN 596-51-0 CAPLUS

CN Pyrrolidinium, 3-[(2-cyclopentyl-2-hydroxy-2-phenylacetyl)oxy]-1,1-dimethyl-, bromide (1:1) (CA INDEX NAME)

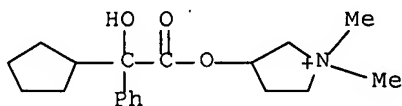


● Br⁻

RN 596-51-0 CAPLUS

CN Pyrrolidinium, 3-[(2-cyclopentyl-2-hydroxy-2-phenylacetyl)oxy]-1,1-dimethyl-, bromide (1:1) (CA INDEX NAME)

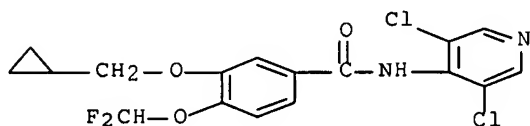
STN SEARCH HISTORY



● Br⁻

RN 162401-32-3 CAPLUS

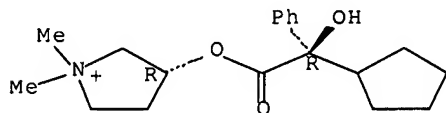
CN Benzamide, 3-(cyclopropylmethoxy)-N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)- (CA INDEX NAME)



RN 202185-74-8 CAPLUS

CN Pyrrolidinium, 3-[[[(2R)-2-cyclopentyl-2-hydroxy-2-phenylacetyl]oxy]-1,1-dimethyl-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.



RN 862156-55-6 CAPLUS

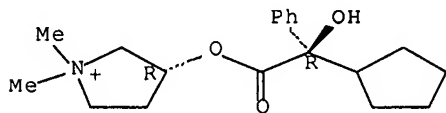
CN Pyrrolidinium, 3-[[[(2R)-cyclopentylhydroxyphenylacetyl]oxy]-1,1-dimethyl-, (3R)-, mixt. with 4-[(4-chlorophenyl)methyl]-2-(hexahydro-1-methyl-1H-azepin-4-yl)-1(2H)-phthalazinone monohydrochloride (9CI) (CA INDEX NAME)

CM 1

CRN 202185-74-8

CMF C19 H28 N O3

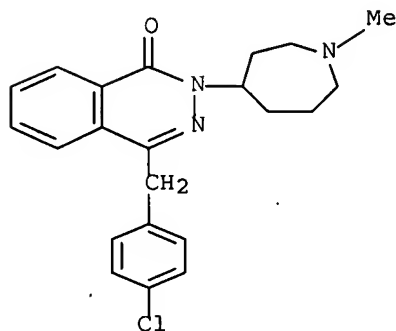
Absolute stereochemistry.



CM 2

STN SEARCH HISTORY

CRN 79307-93-0
CMF C22 H24 Cl N3 O . Cl H



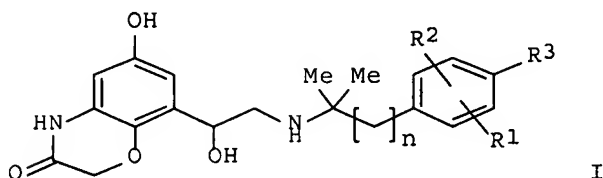
● HCl

L12 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2005:1155523 CAPLUS Full-text
 DOCUMENT NUMBER: 143:416252
 TITLE: Novel medicament combinations for the treatment of respiratory diseases
 PATENT ASSIGNEE(S): Boehringer Ingelheim International GmbH, Germany
 SOURCE: U.S. Pat. Appl. Publ., 50 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005239778	A1	20051027	US 2005-109094	20050419
DE 102004019540	A1	20051110	DE 2004-102004019540	20040422
DE 102004052987	A1	20060504	DE 2004-102004052987	20041103
AU 2005235419	A1	20051103	AU 2005-235419	20050418
CA 2559699	A1	20051103	CA 2005-2559699	20050418
WO 2005102349	A1	20051103	WO 2005-EP4073	20050418
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1781298	A1	20070509	EP 2005-739576	20050418
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 101035540	A	20070912	CN 2005-80012621	20050418

STN SEARCH HISTORY

BR 2005010080	A	20071016	BR 2005-10080	20050418
JP 2007533683	T	20071122	JP 2007-508805	20050418
MX 2006PA11721	A	20061211	MX 2006-PA11721	20061010
NO 2006005060	A	20061121	NO 2006-5060	20061102
KR 2007015592	A	20070205	KR 2006-724528	20061122
PRIORITY APPLN. INFO.:			DE 2004-102004019540A	20040422
			US 2004-578542P	P 20040610
			DE 2004-102004052987A	20041103
			EP 2005-2496	A 20050207
			WO 2005-EP4073	W 20050418
OTHER SOURCE(S):			MARPAT 143:416252	
GI				

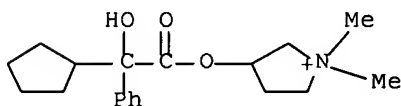


AB The present invention relates to a pharmaceutical compn. comprising one or more compds. of formula I wherein n denotes 1 or 2; R1 denotes hydrogen, halogen, C1-C4-alkyl or -O-C1-C4-alkyl; R2 denotes hydrogen, halogen, C1-C4-alkyl or -O-C1-C4-alkyl; R3 denotes C1-C4-alkyl, OH, halogen, -O-C1-C4-alkyl, -O-C1-C4-alkylene-COOH, -O-C1-C4-alkylene-CO-O-C1-C4-alkyl, and at least one other active substance for the treatment of respiratory diseases. The second active substance can be an anticholinergic, a phosphodiesterase IV inhibitor, a steroid, a LTD4 antagonist or an EGFR inhibitor.

IT 596-51-0D, salts
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (anticholinergics; novel medicament combinations for treatment of respiratory diseases)

RN 596-51-0 CAPLUS

CN Pyrrolidinium, 3-[(2-cyclopentyl-2-hydroxy-2-phenylacetyl)oxy]-1,1-dimethyl-, bromide (1:1) (CA INDEX NAME)



● Br⁻

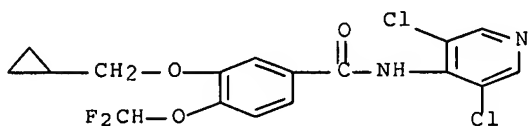
IT 162401-32-3, Roflumilast 292135-78-5
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (phosphodiesterase IV inhibitor; novel medicament combinations for treatment of respiratory diseases)

RN 162401-32-3 CAPLUS

CN Benzamide, 3-(cyclopropylmethoxy)-N-(3,5-dichloro-4-pyridinyl)-4-

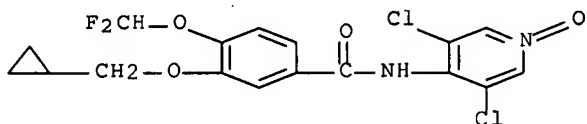
STN SEARCH HISTORY

(difluoromethoxy)- (CA INDEX NAME)



RN 292135-78-5 CAPLUS

CN Benzamide, 3-(cyclopropylmethoxy)-N-(3,5-dichloro-1-oxido-4-pyridinyl)-4-(difluoromethoxy)- (CA INDEX NAME)



L12 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:735067 CAPLUS Full-text

DOCUMENT NUMBER: 143:186747

TITLE: Combination of anticholinergics and inhibitors of phosphodiesterase type 4 for the treatment of respiratory diseases

INVENTOR(S): Maus, Joachim; Cnota, Peter Jurgen; Szelenyi, Istvan; Fyrnys, Beatrix

PATENT ASSIGNEE(S): Sofotec GmbH & Co. Kg, Germany

SOURCE: U.S. Pat. Appl. Publ., 5 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005175547	A1	20050811	US 2005-51463	20050207
AU 2005210084	A1	20050818	AU 2005-210084	20050124
CA 2550848	A1	20050818	CA 2005-2550848	20050124
WO 2005074982	A2	20050818	WO 2005-EP651	20050124
WO 2005074982	A3	20060406		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, SM				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1713471	A2	20061025	EP 2005-701141	20050124
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

STN SEARCH HISTORY

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK,
BA, HR, IS, YU

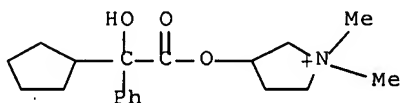
CN 1909899	A	20070207	CN 2005-80002345	20050124
JP 2007520507	T	20070726	JP 2006-551762	20050124
IN 2006KN01701	A	20070511	IN 2006-KN1701	20060620
US 2006251589	A1	20061109	US 2006-485486	20060713
MX 2006PA08937	A	20061002	MX 2006-PA8937	20060804
NO 2006003880	A	20061102	NO 2006-3880	20060831
PRIORITY APPLN. INFO.:			US 2004-541955P	P 20040206
			WO 2005-EP651	W 20050124
			US 2005-51463	B1 20050207

AB The present invention relates to a combination of an inhaled/oral PDE 4 inhibitor in combination with inhaled anticholinergic bronchodilators (muscarinic receptor antagonists), preferentially roflumilast or AWD-12-281 and R,R-glycopyrrolate, for symptomatic or prophylactic treatment of respiratory diseases, especially those accompanied by obstruction or inflammation such as chronic obstructive pulmonary disease or asthma. It further comprises the presentation of this combination in a locally applied (inhaled) formulation and application in an inhalation device for instance in the Novolizer. The influence of R,R-glycopyrrolate in combination with PDE4 inhibitors on TNF secretion was investigated by using human peripheral blood mononuclear cells. Powder inhalation with 50 µg R,R-glycopyrrolate and 500 µg AWD 12-281 per single dose were prepared

IT 13283-82-4 162401-32-3, Roflumilast 202185-74-8
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(combination of anticholinergics and inhibitors of phosphodiesterase for treatment of respiratory diseases)

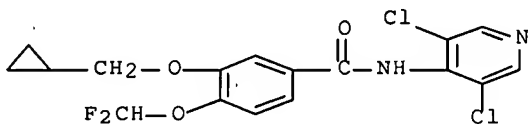
RN 13283-82-4 CAPLUS

CN Pyrrolidinium, 3-[(2-cyclopentyl-2-hydroxy-2-phenylacetyl)oxy]-1,1-dimethyl- (CA INDEX NAME)



RN 162401-32-3 CAPLUS

CN Benzamide, 3-(cyclopropylmethoxy)-N-(3,5-dichloro-4-pyridinyl)-4-(difluoromethoxy)- (CA INDEX NAME)

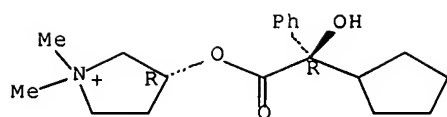


RN 202185-74-8 CAPLUS

CN Pyrrolidinium, 3-[[[(2R)-2-cyclopentyl-2-hydroxy-2-phenylacetyl]oxy]-1,1-dimethyl-, (3R)- (CA INDEX NAME)

Absolute stereochemistry.

STN SEARCH HISTORY



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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

58.60

494.52

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-7.80

-14.04

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 12:40:47 ON 30 NOV 2007